

AMENDMENTS TO THE SPECIFICATION:

Page 8, replace the paragraph beginning on line 25 and bridging pages 8 and 9 with the following amended paragraph:

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cont*

--In a first embodiment, shown in Fig 2, the focusing is carried out through image analysis of one single pixel (denoted focus window in Fig 2) within the detector array 30. The particular pixel to be image analysed and thus focused on is searched among all pixels of the detector array 30 and is chosen due to its thermal properties. The pixel is distinguished from all other pixels of the detector array because of its extreme temperature value. The pixel subjected to focusing may be either the coldest or the warmest. Such an approach requires a bi-directional radiometer connection ~~110~~ 111 in connection with each pixel of the detector array 30 and with an input 102 of a radiometric instrumentation 100 from which output 104 image signals with radiometric data are delivered to the input 42 of the processing unit 40. Compilation, processing and analysis of received data is performed within the processing unit 40, first with a coarse process using a low pass filtering, and the result of this analysis results in that one pixel is chosen, for which a high pass filtering or band pass filtering for precision focusing is carried out. This embodiment compares temperatures of different pixels relative to each other and therefore no radiometric instrumentation for calibration is required. The iteration, as operative commands to the input 52 of the moving means 50, is then

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made on the basis of providing at least the best adaptation to the
focus function described below, for providing as distinct
differences between the chosen pixel and at least one of its
neighbouring pixels as possible.--
